

Abstract

The device has a sensor device (20) and an evaluation device (30). The sensor device (20) has a global sensor (22), by which the general light intensity in the surroundings of the vehicle is detected nondirectionally, and a directional sensor (24), by which the light intensity is detected directionally in the travel direction of the vehicle. By the evaluation device (30), the signals (S1, S2) of the sensors (22, 24) of the sensor device (20) are compared with threshold values (SE), and if at least one threshold value (SE) is undershot, the lighting devices (10, 12) are switched on. A temperature measuring instrument (32) for detecting the temperature of the sensor device (20) is also provided, which supplies the evaluation device with a signal (ST) about the temperature. In the evaluation device (30), temperature-dependent basic signals (S10, S20) that the sensors (22, 24) generate without light incidence are stored in memory. By means of the evaluation device (30), a correction of the current signals (S1, S2) of the sensors (22, 24) of the sensor device (20) and/or of the threshold values (SE) is effected as a function of the basic signals (S10, S20).